

The Appomattox County Board of Supervisors held a joint work session with School staff on Tuesday, March 27, 2018 at 6:00 p.m. in the County Administrator's conference room, located at 153A Morton Lane, Appomattox, Virginia.

**Appomattox County Board of Supervisors**

**Present:**

Samuel E. Carter

Watkins M. Abbitt, Jr.

Chad E. Millner

Bryan A. Moody

Courthouse District, Chairman

Piney Mountain District

Falling River District, Vice-Chair

Wreck Island District

**Absent:**

William H. Hogan

Appomattox River District

**Also Present:**

Susan M. Adams, County Administrator

Vicky Phelps, Finance Director

Dr. Dorinda Grasty- Superintendent

Timmy Garrett- Appomattox Public School Maintenance

Bobby Waddell-School Board

Victor Byrd-Project Manager-Dewberry Engineers, Inc.

Bruce McMillian- Director of Finance and Human Resource

Chairman Carter called the meeting to order at 6:00 p.m. and provided the invocation and then he welcomed all in attendance. He explained that the first item on the agenda would be to receive the preliminary engineering report as provided by Mr. Byrd with Dewberry & Davis Engineers Inc.

Mr. Byrd stated that the purpose of the Preliminary Engineering Report was to evaluate the condition of the existing heating, ventilation and air conditioning systems at Appomattox County High School and Middle School along with evaluating the existing boilers and water source heat pumps at the Elementary School and to provide recommendations as to the need for replacement/renovations of the existing HVAC systems.

Mr. Byrd stated that their recommendations are based upon field observations, past project drawings, code review, life expectancy, energy efficiency, reasonable cost and sound engineering judgment utilizing their experience with similar projects and systems. Mr. Byrd stated that their recommendations would include system type for each area, as well as a budget cost for each option.

**Appomattox County High School:**

Mr. Byrd stated that based on their findings and engineering conclusion, Dewberry recommends replacing all the mechanical equipment with new energy efficient equipment including all air handlers and associated condensing units, and duct mounted gas furnaces. He stated that Dewberry recommends that the existing constant volume multi-zone and single zone systems be replaced with variable volume systems, including variable air volume terminal boxes with hot water reheat. This would require the installation of a heating hot water system. This system

would include two high efficiency condensing boilers, heating hot water pumps and heating hot water distribution piping system to the VAV boxes along with associated controls. It is recommended to replace in kind the DX Unit Ventilators, electric cabinet unit heaters, and exhaust fans. The control system would also require an upgrade to be fully DDC during this renovation.

Estimated opinion of probable cost: \$3,055,000

#### Appomattox County Middle School

Mr. Byrd stated that based on their findings and engineering conclusion, Dewberry recommends to replace all the mechanical equipment with new energy efficient equipment including all air handlers, fan coil units and unit ventilators with units that have separate heating and cooling coils. Dewberry recommends that the existing Dual Temperature Water System (DTW) be converted into a four-pipe system. The four-pipe system would consist of an independent Chilled Water supply, return piping system along with an independent Heating Hot Water supply, and return piping system. A new heating hot water piping distribution will be configured from the existing hot water system to provide heating hot water to all the new equipment throughout the facility, while the existing DTW piping distribution system will be utilized for the Chilled Water System. It is recommended that the existing boilers be refurbished and reused. Dewberry understands that there are already future projects to replace the existing air-cooled chillers. If these have not been replaced, they should also be replaced at the time of this renovation. New chilled water and heating hot water pumping distribution system shall be provided. The Administration area and Media Center shall be replaced with high efficient split system heat pumps to allow year around operation. It is recommended to replace in kind the surface mounted fin tube radiators and exhaust fans. The control system will also require an upgrade to accommodate the conversion of the DTW system to the new chilled water and heating hot water systems.

Estimated opinion of probable cost: \$1,721,000

#### Appomattox County Elementary School

Mr. Byrd stated that based on the findings and engineering conclusion, Dewberry recommends to replace all the water source heat pumps and reconfigure their locations to allow serviceability. Dewberry also recommends that at this time the boilers be refurbished and remain in service. Dewberry recommends that within 8-10 years the boilers should be replaced with two (2) new high efficiency condensing type boilers.

Estimated opinion of probable cost:

Replacement and Reconfiguration of the WSHP: \$403,000

Replacement of the Boilers: \$93,000

Mr. Byrd provided an overview of all existing systems in each school and called for questions, comments or concerns from the Board.

Chairman Carter opened the floor for discussion.

After lengthy discussion, Mr. Abbitt asked Mr. Byrd with his expertise to prioritize the referenced projects.

Mr. Byrd prioritized the projects as the following: High School project, Middle School project and then Elementary School project.

Mr. Abbitt questioned if the HVAC systems at the High School could be fixed in phases. He stated they are looking for ways to fix, but maybe not all at once.

Mr. Byrd stated that this project could be phased out; however, the project would go up in cost over time.

Dr. Grasty stated that a renovation was looked at in 2010 with a cost of approximately 45-50 million. She stated that the possibility of renovating, and a new building was looked at but due to the cost this project has been cancelled so they daily attend to all needs as they arise.

Mr. Waddell stated that he is worried that it is just a matter of time at the High School before something major breaks and will cause school cancellation.

Mr. Hogan, via written comment, questioned if the School staff could provide which parts of the projects are critical, what can be replaced or repaired and what could be possibly delayed.

After Mr. Byrd addressed questions and concerns, Chairman Carter thanked him for coming and providing the Preliminary Engineering Report.

Ms. Adams stated that next on the agenda would be discussion with School staff on the FY19 School budget.

After lengthy discussion, questions and concerns were addressed on the FY-19 School budget, Mr. Abbitt made a motion to adjourn the meeting at 8:07 p.m. Mr. Moody seconded Mr. Abbitt's motion. Chairman Carter called for a vote: Chairman Carter, aye; Mr. Abbitt, aye; Mr. Hogan, absent; Mr. Millner, aye; Mr. Moody, aye.

The meeting adjourned at 8:07 p.m.

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Samuel E. Carter, Chairman